

If the film needs to be thermoformed, the products used will have to have a thermoforming temperature range which has the broadest possible region of overlap. By way of example, the melting point (T_m), the minimum thermoforming temperature (THF MIN) and the maximum thermoforming temperature (THF MAX) of various constituents of the layers of the film of the invention are given in Table 1 below.

PRODUCT	T_m ($^{\circ}\text{C}$)	THF MIN.	THF MAX.
polypropylene homopolymer	165-175	$T_m - 25^{\circ}\text{C}$	$T_m + 5^{\circ}\text{C}$
polypropylene copolymer	160-171	$T_m - 20^{\circ}\text{C}$	$T_m + 30^{\circ}\text{C}$
maleized polypropylene	160-175	$T_m - 25^{\circ}\text{C}$	$T_m + 5^{\circ}\text{C}$
PA 6	210-221	$T_m - 25^{\circ}\text{C}$	$T_m + 5^{\circ}\text{C}$
PA 6 / 6-6	180-190	$T_m - 25^{\circ}\text{C}$	$T_m + 20^{\circ}\text{C}$
PA 11	183-192	$T_m - 25^{\circ}\text{C}$	$T_m + 5^{\circ}\text{C}$
PA 12	178-180	$T_m - 25^{\circ}\text{C}$	$T_m + 5^{\circ}\text{C}$
Blend of PA 6 and polyolefin	200-225	$T_m - 25^{\circ}\text{C}$	$T_m + 5^{\circ}\text{C}$
PVDF homopolymer	168-172	$T_m - 25^{\circ}\text{C}$	$T_m + 5^{\circ}\text{C}$
PMMA	$T_g = 90-105$	$T_g + 20^{\circ}\text{C}$	$T_g + 60^{\circ}\text{C}$
PVDF/PMMA (60/40)	168-172	$T_m - 25^{\circ}\text{C}$	$T_m + 5^{\circ}\text{C}$

Tab 1: Thermoforming temperature range

The various layers may contain fillers and additives, provided that the transparency properties of the top layer (B) and the colours and colour effects of the assembled structure are not affected.

The invention is particularly useful for coating polypropylene substrates.

The preceding example can be repeated with similar success by substituting the generically or specifically described reactants and/or operating conditions of this invention for those used in the preceding example. Also, the preceding specific embodiments are to be construed as merely illustrative, and not limitative of the remainder of the disclosure in any way whatsoever.

The entire disclosure of all applications, patents and publications, and of corresponding French application 0100879, are hereby incorporated by reference.

From the foregoing description, one skilled in the art can easily ascertain the essential characteristics of this invention and, without departing from the spirit and scope thereof, can make various changes and modifications of the invention to adapt it to various usages and conditions.